

1 Q. Further to PUB-NLH-114 if the data sets for historic peak loads and energy  
2 consumption that Newfoundland and Labrador Hydro uses in its load forecasting  
3 process do not now include added corrections for interruptibles, voltage reduction  
4 and unserved demand and energy, then if such additions were to be included,  
5 would the result be that Newfoundland and Labrador Hydro's forecasts of energy  
6 consumption and peak loads increase? If not, why not?

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9 A. Please see Hydro's response to PUB-NLH-113, which specifies the historical peak  
10 data used by Hydro to forecast Island peak loads. Hydro's peak load forecast for its  
11 Island Rural Customers is based on a long-term historical load factor. The energy  
12 and peak data used to calculate the historical load factor would not have been  
13 impacted by interruptible or voltage control activity as Hydro has not had load  
14 control programs to control peak for this customer group. If such unserved energy  
15 amounts were large enough and were not accounted for in the energy forecast, the  
16 result would be a lower peak forecast. However, it is Hydro's opinion that the  
17 annual energy amounts associated with unserved energy would not have been large  
18 enough to clearly influence the calculated load factor used to forecast peak demand  
19 for the Island Rural Customer group.

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21 Hydro is not able to make a determination at this time as to whether or not its peak  
22 demand forecasts would be higher as a result of Newfoundland Power's (NP's)  
23 historical voltage reductions or unserved demands as Hydro does not have the  
24 historical record of the peak demand reductions associated with NP's voltage  
25 reductions or unserved demands. It is plausible that Hydro's peak load forecast for  
26 NP could be influenced by the historical demand reductions associated with NP's  
27 curtailable service option; however, the historical record of NP's curtailments from

1 1995 indicates the average curtailed demand reduction to be approximately five  
2 megawatts. Given the modest historical magnitude of NP's curtailments from 1995  
3 and that Hydro's peak demand model for NP relies on more than 35 years of annual  
4 peak records, it is Hydro's opinion that NP's historical curtailments would not result  
5 in a significant increase in Hydro's forecast peak loads.

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7 Hydro's forecast of annual utility energy requirements that includes the  
8 requirements of NP and Hydro's Rural Customers are based on long-term historical  
9 consumption records of 35 years or longer. It is Hydro's opinion that the annual  
10 amounts of energy associated with interruptibles, voltage reduction and unserved  
11 energy over this time period would not have been large enough to clearly establish  
12 a positive influence on its utility energy forecasts. Owing to the significant number  
13 of customers impacted by the rotating outages in January, Hydro plans to assess the  
14 impact of the unserved energy on 2014 energy consumption prior to including the  
15 2014 energy consumption data in its forecasting models.

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17 Hydro's forecast of annual industrial energy and peak requirements are provided by  
18 its Industrial Customers which determine their energy and peak requirements  
19 based primarily on production levels. The forecasts provided by Industrial  
20 Customers would not be influenced by historical interruptible, voltage reduction or  
21 unserved demand and energy amounts and would not increase Hydro's forecasts of  
22 energy consumption and peak loads.